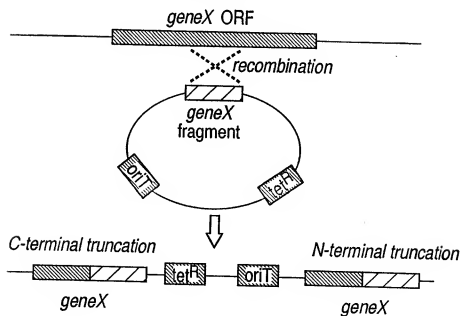
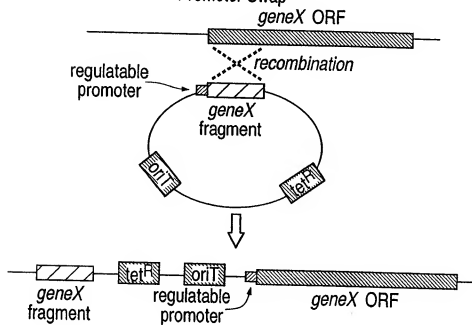


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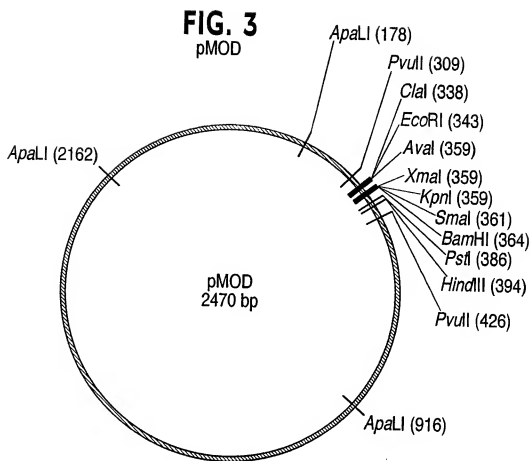
**FIG. 1**  
Single-crossover recombination



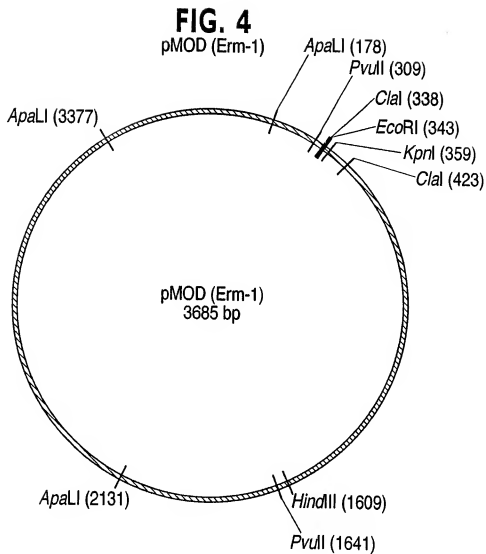
**FIG. 2**  
Promoter Swap



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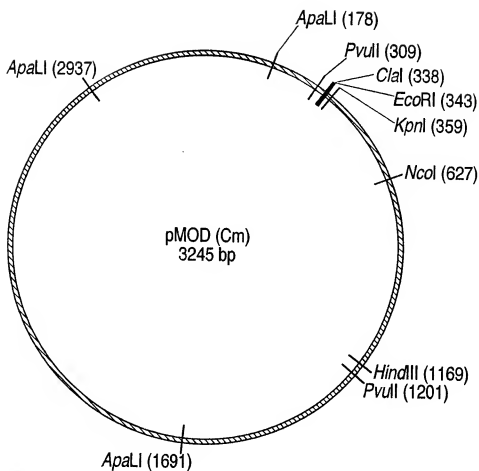


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**FIG. 5**  
pMOD (Cm)



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# FIG. 6A

pMOD

1	TCGCGCGTTT	CGGTGATGAC	GGTGAAGAAC	TCGACACAT	GCAGTCCCG
	AGCGCGCAAA	GCCACTACTG	CCACTTTTGG	AGACTGTGTA	CGTCGAGGGC
51	GAGACGGTCA	CAGCTTGCT	GTAAGCGGAT	GCCGGGAGCA	GACAAGCCCG
	CTCTGCCAGT	GTGGAACAGA	CATTGCGCTA	GCGCCCTCGT	CTGTTCGGGC
101	TCAGGGCGCG	TCAGCGGGTG	TTGGCGGGTG	TCGGGGCTGG	CTTAACATG
	AGTCCCGCGC	AGTCGCCAC	AACGCCAC	AGCCCCGACC	GAATTGATAC
			ApalI		
151	CGGCATCAGA	GCAGATTGTA	CTGAGAGTGC	ACCATATGCG	GTGTGAAATA
	GCCGTAGTCT	CGTCTAACAT	GACTCTCAGC	TGGTATACGC	CACACTTTAT
201	CCGCACAGAT	GCCTAAGGAG	AAAATACCGC	ATCAGGCGCC	ATTCGCCATT
	GGCGTGTCTA	CGCATTCTCT	TTTTATGGCG	TAGTCCGCGG	TAAGCGGTAA
251	CAGGCTGCGC	AACTGTTGGG	AAGGGCGATC	GGTGCGGGCC	CTTTCGCTAT
	GTCCGACGCG	TTGACAACCC	TTCCCGCTAG	CCACGCCCGG	AGAAGCGATA
				EcoRI	
	PvuII			ClaI	
301	TACGCCAGCT	GTCTCTTATA	CACATCTCAA	CCATCATCGA	TGAATTCCAG
	ATGCGGTCTGA	CAGAGAATAT	GTGTAGAGTT	GGTAGTAGCT	ACTTAAGCTC
	KpnI	BamHI			
	SmaI				
	XbaI				
	AvaI				
351	CTCGGTACCC	GGGGATCCTC	TAGAGTCGAC	CTGCAGGCAT	GCAAGCTTCA
	GAGCCATGGG	CCCCTAGGAG	ATCTCAGCTG	GACGTCCGTA	CGTTCGAAGT
			PvuII		
401	GGGTTGAGAT	GTGTATAAGA	GACAGCTGCA	TTAATGAATC	GGCCAACGCG
	CCCAACTCTA	CACATATTCT	CTGTCGACGT	AATTACTTAG	CCGGTTGCGC
451	CGGGGAGAGG	CGGTTTGCCT	ATTGGGCGCT	CTTCCGCTTC	CTCGCTCACT
	GCCCTCTCC	GCCAAACGCA	TAACCCGCGA	GAAGGCGAAG	GAGCGAGTGA
501	GACTCGCTGC	GCTCGGTCGT	TCGGCTGCGG	GAGCGGGTAT	CAGCTCACTG
	CTGAGCGAGC	CGAGCCAGCA	AGCCGACGCC	GCTCGGCATA	GTGCGAGTGAG
551	AAAGGCGGTA	ATACGGTTAT	CCACAGAATC	AGGGGATAAC	GCAGGAAAGA
	TTTCCGCCAT	TATGCCAATA	GGTGCTTAG	TCCCCTATTG	CGCTCTTTCT
601	ACATGTGAGC	AAAAGGCCAG	CAAAAGGCCA	GGAAACGTA	AAAGGCGCGC
	TGTACACTCG	TTTTCCGGTC	GTTTTCCGGT	CCTTGGCATT	TTTCCGGGCG
651	TTGCTGCGCT	TTTTCTCATG	GCTCCGCCCC	CTGACGAGGC	ATCACAAAAA
	AACGACCGCA	AAAAGGTATC	CGAGGCGGGG	GGACTGCTCG	TAGTGTTTTT
701	TCGACGCTCA	AGTCAGAGGT	GGCGAAACCC	GACAGGACTA	TAAAGATAAC
	AGCTGCGAGT	TCAGTCTCCA	CCGCTTTGGG	CTGTCTGAT	ATTCTATGCT
751	AGGCGTTTCC	CCCTGGAAGC	TCCCTCGTGC	GCTCTCTGT	TCCGACCCCTG
	TCCGCAAAAG	GGGACCTTCG	AGGGAGCACG	CGAGAGGACA	AGGCTGGGAG
801	CGGCTTACCG	GATACCTGTC	CGCTTTCTCT	CCTTCGGGAA	GGCTGGCGCT
	GGCGAATGGC	CTATGGACAG	GGCGAAAGAG	GGAAAGCCCTT	CGCACCGCGA
851	TTCTCATAGC	TCAGCTGTGA	GGTATCTCAG	TTGCGTGTAG	GTGCTTCGCT
	AAGAGTATCG	AGTGCACATC	CCATAGAGTC	AAGCCACATC	CAGCAAGCGA
		ApalI			
901	CCAAGCTGGG	CTGTGTGCAC	GAACCCCCCG	TTGAGCCGGA	CCGCTGCGCC
	GGTTGACCC	GACACACGTG	CTTGGGGGGC	AAGTCGGGCT	GGCGACGCGG

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# FIG. 6B

pMOD

951	TTATCCGGTA	ACTATCGTCT	TGAGTCCAAC	CCGGTAAGAC	ACGACTTATC
	AATAGGCCAT	TGATAGCAGA	ACTCAGGTTG	GGCCATTCTG	TGCTGAATAG
1001	GCCACTGGCA	GCAGCCACTG	GTAAACAGGAT	TAGCAGAGCG	AGGTATGTAG
	CGGTGACCGT	CGTCGGTGAC	CATTGTCTTA	ATCGTCTCGC	TCCATACATC
1051	CGGGTGGTAC	AGAGTTCTTG	AAGTGGTGGC	CTAAGTACGG	CTACACTAGA
	CGCCACGATG	TCTCAAGAAC	TTCAACACCG	GATTGATGCC	GATGTGATCT
1101	AGGACAGTAT	TTGGTATCTG	CGCTCTGCTG	AAGCCAGTTA	CCTTCGGAAA
	TCCTGTGCATA	AACCATAGAC	GCAGACGAC	TTCCGTCAAT	GGAGCGCTT
1151	AAGAGTTGGT	AGCTCTTGAT	CCGGCAAAAC	AACACCGCT	GGTAGCGGGT
	TTCTCAACCA	TCGAGAACTA	GGCCGTTTGT	TTGGTGGCGA	CCATCGCCAC
1201	GTTTTTTTTGT	TTGCAAGCAG	CAGATTACGC	GCAGAAAAAA	AGGATCTCAA
	CAAAAAAACA	AACGTTCTGC	GTCTAATGCG	CGTCTTTTTT	TCCTAGAGTT
1251	GAAGATCCCT	TGATCTTTTC	TACGGGGTCT	GACGCTCAGT	GGACGAAAAA
	CTTCTAGGAA	ACTAGAAAAG	ATGCCCCAGA	CTGCAGTGCA	CTCTGCTTTT
1301	CTCAGGTTAA	GGGATTTTGG	TCATGAGATT	ATCAAAAAGG	ATCTTCACCT
	GAGTGCAATT	CCCTAAAACC	AGTACTCTAA	TAGTTTTTCC	TAGAAGTGGG
1351	AGATCCCTTTT	AAATTAATAA	TGAAGTTTTA	AATCAATCTA	AAGTATATAT
	TCTAGGAAAA	TTTAATTTTT	ACTTCAAAAT	TTAGTTAGAT	TTTATATATA
1401	GAGTAACTT	GGTCTGACAG	TTACCAATGC	TTAATCAGTG	AGGCACCTAT
	CTCATTTGAA	CCAGACTGTC	AATGGTTACG	AATTAGTCAC	TCGGTGGATA
1451	CTCAGCGATC	TGTCTATTTT	GTTCATCCAT	AGTTGCCTGA	CTCCCCGTCG
	GAGTCGCTAG	ACAGATAAAG	CAAGTAGGTA	TCAACGGACT	GAGGGGACGC
1501	TGTAGATAAC	TACGATACGG	GAGGGCTTAC	CATCTGGCCC	CAGTGCCTGCA
	ACATCTATTG	ATGCTATGCC	CTCCGGAATG	GTAGACCGGG	GTACACGAGT
1551	ATGATACCGC	GAGACCCACG	CTCACCGGCT	CCAGATTTAT	CAGCAATAAA
	TACTATGGCG	CTCTGGGTGC	GAGTGGCCGA	GGTCTAAATA	GTCTGTTATTT
1601	CCAGCCAGCC	GGAAAGGGCG	AGCGCAGAAAG	TGGTCTTGCA	ACTTTATCCG
	GGTGCGTCCG	CCTTCCCGCG	TCGGCTCTTC	ACCAGGACGT	TGTAATAGGC
1651	CCTCCATCCA	GTCTATTAAT	TGTTGCCGGG	AAGCTAGAGT	AAGTAGTTCC
	GGAGGTAGGT	CAGATAATTA	ACAACGGCCC	TTGATCTCA	TTTCATCAAG
1701	CCAGTTAATA	GTTTGGCCAA	CGTTGTTGCC	ATTGCTACAG	GCATCGTGGT
	GGTCAATTAT	CAAACGCGTT	GCAACAACGG	TAACGATGTC	CGTAGCACCA
1751	GTACGCGCTG	TCGTTTGGTA	TGGCTTCATT	CAGTCCCGGT	TCCCAACGAT
	CAGTGGGAGC	AGCAAAACAT	ACCAGAGTAA	GTGAGGGCCA	AGGGTTGCTA
1801	CAAGGCGAGT	TACATGATCC	CCCATGTTGT	GCAAAAAAGC	GGTTAGCTCC
	GTCCGCTCA	ATGTAAGTGG	GGGTACAACA	CGTTTTTTTC	CCAACTCAGG
1851	TTCCGCTCTC	CGATCGTTGT	CAGAAGTAAG	TTGGCCGCGG	TGTTATCACT
	AAGCCAGGAG	GCTAGCAACA	GTCTTCATTC	AACCGCGGTC	ACAATAGTGA
1901	CATGGTTATG	GCAGCACTGC	ATAATTCTCT	TACTGTCAAT	CCATCCGTAA
	GTACCAATAC	CGTCGTGACG	TATTAAGAGA	ATGACAGTAC	GGTAGGCAAT
1951	GATGCTTTTC	TGTGACTGGT	GAGTACTCAA	CCAAGTCATT	CTGAGAAATG
	CTACGAAAAAG	ACACTGACCA	CTCATGAGTT	GGTTCAGTAA	GACTCTTATC
2001	TGTATGCGGC	GACCGAGTTG	CTCTTGGCCG	GCCTCAATAC	GGGATAATAC
	ACATACGCGG	CTGGCTCAAC	GAGAACGGGG	CGCAGTTATG	CCCTATTATG
2051	CGCGCCACAT	AGCAGAACTT	TAAAGTGTCT	CATCATTGGA	AAACGTTCTT
	CGCGCGTGTA	TCGTTCTGAA	ATTTTCACGA	GTAGTAACCT	TTTGCAGAAA
2101	CGGGGGGAAA	ACTCTCAAGG	ATCTTACCGC	TGTTGAGATC	CAGTTCGATG
	GCCCCGCTTT	TGAGAGTTCC	TAGAATGGCG	ACAACTCTAG	GTCAGGCTAC

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# FIG. 6C

		ApaLI	pNOD		
2151	TAACCACTC	GTGCACCCAA	CTGATCTTCA	GCATCTTTA	CTTTCACCAG
	ATTGGGTGAG	CACGTGGGT	GACTAGAAGT	CGTAGAAAAT	GAAAGTGGTC
2201	CGTTTCTGGG	TGAGCAAAAA	CAGGAAGGCA	AAATGCCGCA	AAAAAGGGAA
	GCAAAGACCC	ACTCGTTTT	GTCTTCCGT	TTACGGCGT	TTTTCCCTT
2251	TAAGGCGAC	ACGGAATGT	TGAATACTCA	TACTCTTCT	TTTTCAATAT
	ATTCCCGCTG	TGCCTTTACA	ACTTATGAGT	ATGAGAAGGA	AAAAGTTATA
2301	TATTGAAGCA	TTTATCAGGG	TTATTGTCTC	ATGAGCGGAT	ACATATTGTA
	ATAACTTCGT	AAATAGTCCC	AATAACAGAG	TACTCGCCTA	TGTATAAACT
2351	ATGTATTTAG	AAAAATAAAC	AAATAGGGGT	TCCGCGCACA	TTTCCCGGAA
	TACATAAATC	TTTTTATTTG	TTTATCCCCA	AGGCGCGTGT	AAAGGGGCTT
2401	AAGTGCCACC	TGACGTCTAA	GAAACCATTA	TTATCATGAC	ATTAACCTAT
	TTCACGGTGG	ACTGCAGATT	CTTTGGTAAT	AATAGTACTG	TAATTGGATA
2451	AAAAATAGGC	GTATCACGAG			
	TTTTTATCCG	CATAGTGCCTC			

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# FIG. 7A

pMOD (Erm-1)

1	TCGCGGGTTT	CGGTGATGAC	GGTGAAAACC	TCTGACACAT	GCAGCTCCCG
	AGCGCGCAAA	GCCACTACTG	CCACTTTTGG	AGACTGTGTA	CGTCGAGGGC
51	GAGACGGTCA	CAGCTTGTCT	GTAAGCGGAT	GCCGGGAGCA	GACAAAGCCG
	CTCTGCCAGT	GTGGAACAGA	CATTGCGCTA	CGGCCCTCGT	CTGTTCCGGC
101	TCAGGGCGCG	TCAGCGGGTG	TTGGCGGGTG	TCGGGGCTGG	CTTAACATATG
	AGTCCCAGCG	AGTCGCCAC	AACGCCCCAC	AGCCCCGACC	GAATTGATAC
			ApalI		
151	CGGCATCAGA	GCAGATTGTA	CTGAGAGTGC	ACCATATGCG	GTGTGAAATA
	GCCGTAGTCT	CGTCTAACAT	GACTCTCACG	TGGTATACGC	CACACTTTAT
201	CCGCACAGAT	CGCTAAGGAG	AAAAACCAGC	ATCAGGCGCC	ATTGCGCCATT
	GGCGTGTCTA	CGCATTCTTC	TTTTATGGCG	TAGTCCGCGG	TAAGCGGTAA
251	CAGGCTGCGC	AACTGTTGGG	AAGGGCGATC	GGTGGGGGCC	TCTTCGCTAT
	GTCCGACGCG	TTGACAACCC	TTCCCGCTAG	CCACGCCCGG	AGAAGCGATA
				EcoRI	
		PvuII		Clal	
301	TACGCCAGCT	GTCTCTTATA	CACATCTCAA	CCATCATCGA	TGAATTCGAG
	ATCGGTCGCA	CAGAGAATAT	GTGTAGAGTT	GGTAGTAGCT	ACTTAAGCTC
	KpnI				
351	CTCGGTACCG	TACCATTCAA	ATTTATCCTT	ATTGTACAAA	ATAACAGCGA
	GAGCATGGC	ATGGTAAGTT	TAAATAGGAA	TAACATGTTT	TATTGTGCT
			Clal		
401	AATTTTAAAT	TCTATTCCTT	ATCGATACAA	ATTCGCCGTA	GGCGCTAGGG
	TAAAAAATTT	AGATAAGGAA	TAGCTATGTT	TAAGGGGCAT	CCGCGATCCC
451	ACCTCTTTAG	CTCTCTGGAA	GCTGTGAGTA	GTATACCTAA	TAATTTATCT
	TGGAGAAATC	GAGGAACCTT	CGACAGTCAT	CATATGGATT	ATTAATAAGA
501	ACATTCCCTT	TAGTAACGTG	TAACITTTCCA	AATTTACAAA	AGCGACTCAT
	TGTAAGGGGAA	ATCATTTGCAC	ATTGAAAGGT	TTAAATGTTT	TCGCTGAGTA
551	AGAATTTATTT	CCTCCCGTTA	ATAATAGAT	AACTATTAAA	AATAGACAAT
	TCTTAATAAA	GGAGGGCAAT	TTATATCTCA	TTGATAATTT	TTATCTGTTA
601	ACTTGCTCAT	AAGTAACGGT	ACTTAAATTG	TTTACTTTGG	CTGTGTTTCAT
	TGAACGAGTA	TTCATTTGCCA	TGAATTTAAC	AAATGAAACC	GCACAAAGTA
651	TGCTTGTGAA	ACTGATTTTT	AGTAACAGT	TGACGATATT	CTCGATTGAC
	ACGAACACTT	TGACTAAAAA	TCATTTGTCA	ACTGCTATAA	GAGCTAACTG
701	CCATTTTGAA	ACAAAGTACG	TATATAGCTT	CCAATATTTA	TCTGGAACAT
	GGTAAACACT	TGTTTCATGC	ATATATCGAA	GGTTATAAAT	AGACCTTGTA
751	CTGTGGTATG	GCGGGTAAGT	TTTATTAAGA	CACTGTTTAC	TTTTGGTTTA
	GACACCATAC	CGCCCATTC	AAATAATCT	GTGACAAATG	AAAACCAAAAT
801	GGATGAAAGC	ATTCCGCTGG	CAGCTTAAAGC	AATTGCTGAA	TCGAGACTTG
	CCTACTTTTC	TAAGGCGACC	GTCGAATTCG	TTAACGACTT	AGCTCTGAAC
851	AGTGTCGAAG	AGCAACCTTA	GTGTCGGTG	AAATATCCAAG	GATCGCTTGT
	TCACACGTTT	TCGTTGGGAT	CACAAGCCAC	TTATAGGTTT	CATTGCAACA
901	AGAATCCTTC	TTCAACAATC	AGATAGATGT	CAGACGCATG	GCTTTCAAAA
	TCTTAGGAAG	AAGTTGTTAG	TCTATCTACA	GTCTGCGTAC	CGAAAGTTTT
951	ACCACCTTTT	TAATAAATTG	TTGCTTTAAA	TGGTAAGGAA	TATTTCCCAAC
	TGGTGAAAAA	ATTATTAAAC	ACACGAATTT	ACCATTCTCT	ATAAGGGTTG
1001	AATTTTATAC	CTCTGTTTGT	TAGGGAATTG	AACTGTAGA	ATATCTTGGT
	TAAAAATATG	GAGACAAACA	ATCCCTTAAC	TTTGACATCT	TATAGAACCA



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# FIG. 7B

pMOD (Erm-1)

1051	GAATTAAGT	GACACGAATG	TTCAAGTTTA	ATTTTCTGA	CGATAAGTTG
	CTTAATTCCA	CTGTGCTTAC	AAGTCAAAAT	TAAAAAGACT	GCTATTCAAC
1101	AATAGATGAC	TGTCTAATTC	AATAGACGTT	ACCTGTTTAC	TTATTTTAGC
	TTATCTACTG	ACAGATTAAG	TTATCTGCAA	TGGACAAATG	AATAAAATCG
1151	CAGTTTCGCT	GTTAAATGCC	CTTTACCTGT	TCCAATTTG	TAAACGGTAT
	GTCAAAGCAG	CAATTTACGG	GAATGGACA	AGGTTAAAGC	ATTTGCCATA
1201	CGGTTTCTTT	TAAATTCAT	TGTTTTATT	TTTGGTTGAG	TACCTTTTCA
	GCCAAAGAAA	ATTTAAGTTA	ACAAAAAT	AAACCAACTC	ATGAAAAATG
1251	TTGCTTAAAA	AGTTTTGAGA	ATATTTTATA	TTTTTGTTCA	TGTAATCACT
	AAGCAATTTT	TCAAACTCT	TATAAAATAT	AAAAACAAGT	ACATTAGTGA
1301	CCTGAAGTGA	TACATCTATA	AATAAATACA	GAAGTTAAAC	GATTTGTTTG
	GGACTTCAC	ATGTAGATAT	TTATTTATGT	CTTCAATTTG	CTAAACAAC
1351	TAATTTTAGT	TATCTGTTTA	AAAAAGTCATA	AGATTAGTCA	CTGGTAGGAA
	ATTAATAATCA	ATAGACAAAT	TTTTCAAGT	TCTAATCAGT	GACCATCCTT
1401	TTAATCTAAA	CGTATTTATC	TGCGTAATCA	CTGTTTTTAG	TCTGTTTCAA
	AATAGATTT	GCATAAATAG	ACGCATTAGT	GACAAAAATC	AGACAAAGTT
1451	AACAGTAGAT	GTTTTATCTA	CATTACGCAT	TTGGAATACC	AACATGACGA
	TTGTCATCTA	CAAAATAGAT	GTAATGCGTA	AACTTTATGG	TTGTACTGCT
1501	ATCCCTCCTT	CTTAATTACA	AATTTTATAGC	ATCTAATTTA	ACTTCAATTC
	TAGGGAGGAA	GAATTAATGT	TAAAAAATCG	TAGATTAAAT	TGAAGTTAAG
1551	CTATTATACA	AAATTTTAAG	ATAATGCAC	ATCAACACAC	TCTTAAGTTT
	GATAATATGT	TTTAAAAATC	TATTACGTGA	TAGTTGTGTG	AGAAATTCAAA
		HindIII			
1601	GCTTCTAAAG	CTTCAGGGTT	GAGATGTGTA	TAAGAGACAG	CTGCATTAAT
	CGAAGATTTC	GAAGTCCCAA	CTCTACACAT	ATTCTCTGTC	GACGTAATTA
1651	GAATCGGCCA	ACGCGCGGG	AGAGCGGGT	TGCGTATTGG	CGGCTCTTCC
	CTTAGCCGGT	TGCGCGCCCC	TCTCGGCCAA	ACGCATAAACC	CGCGAGAAAG
1701	GCTTCTCTCG	TCAGTACTC	GCTGCGCTCG	GTGTTCCGCG	TGCGGCGAGC
	CGAAGGAGCG	AGTGACTGAG	CGACGCGAGC	CAGCAAGCCG	ACGCGCTCG
1751	GGTATCAGCT	CAGTCAAAAG	CGGTAAATACG	GTTATCCACA	GAATCAGGGG
	CCATAGTCGA	GTGAGTTTCC	GCCATTATGC	CAATAGGTGT	CTTAGTCCCC
1801	ATAACGCGAG	AAAGAACATG	TGAGCAAAAG	GCCAGCAAAA	GGCCAGGAAC
	TATTGCGTCC	TTTCTGTGAC	ACTCGTTTTT	CGGTGTTTTT	CCGGTCCCTG
1851	CGTAAAAAGG	CGCGTTTGT	GGCGTTTTTC	CATAGGGCTC	GGCCCCCTGA
	GCATTTTTCC	GGCGCAACGA	CCGCAAAAG	GTATCCGAGG	CGGGGGGACT
1901	CGAGCATCAC	AAAAATCGAC	GCTCAAGTCA	GAGGTGGCGA	AACCCGACAG
	GCTCGTAGTG	TTTTTAGCTG	CGAGTTCACT	CTCCACCGCT	TTGGGCTGTC
1951	GACTATAAAG	ATACGAGGCG	TTTCCCCCTG	GAAGCTCCCT	CGTGCCTCT
	CTGATATTTT	TATGGTCCGC	AAAGGGGGAC	CTTCGAGGGA	GCACGCGAGA
2001	CCTGTCCCGA	CCCTGCGGCT	TACCGGATAC	CTGTCCGCTT	TTCTCCCTTC
	GGACAAAGCT	GGGACGGCGA	ATGGCTATG	GACAGGCGGA	AAGAGGGAAC
2051	GGGAAGCGTG	GCGCTTTCTC	ATAGCTCAGC	CTGTAGGTAT	CTCAGTTGCG
	CCCTTCGCAC	CGCGAAAGAG	TATCGAGTGC	GACATCCATA	GAGTCAAGCC
				AgeI	
2101	TGTAGGTCGT	TGCTCCAAG	CTGGGCTGTG	TGCACGAACC	CCCCGTTTCA
	ACATCCAGCA	AGCGAGGTTT	GACCCGACAC	ACGTGCTTGG	GGGGCAAGTC
2151	CCCGACCGCT	GCGCCTTATC	CGGTAACTAT	CGTCTTGAGT	CCAACCCGGT
	GGGCTGGCGA	CGCGGAATAG	GCCATTGATA	GCAGAACTCA	GGTTGGGCGA

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# FIG. 7C

pMOD (Erm-1)

2201	AAGACACGAC	TTATCGCCAC	TGGCAGCAGC	CAC TGGTAAC	AGGATTAGCA
	TTCTGTGCTG	AATAGCGGTG	ACCGTCGTCG	GTGACCATG	TCCTAATCGT
2251	GAGCGAGGTA	TGTAGGCGGT	GCTACAGAGT	TCTTGAAGTG	GTGGCCATAAC
	CTCGCTCCAT	ACATCCGCCA	CGATGTCTCA	AGAACTTCAC	CACCGGATTG
2301	TACGGCTACA	CTAGAAGGAC	AGTATTTGGT	ATCTGCGCTC	TGCTGAAGCC
	ATGCCGATGT	GATCTTCTCG	TCATAAACCA	TAGACGCGAG	ACGACTTCGG
2301	AGTTACCTTC	GGAAAAAGAG	TTGGTAGCTC	TTGATCCGGC	AAACAACCA
	TCAATGGAAG	CCTTTTCTC	AACATCGAG	AACTAGGCCG	TTTGTTTGGT
2401	CCGCTGGTAG	CGGTGGTTTT	TTTGTTCGA	AGCAGCAGAT	TACGCCAGAG
	GGCGACCATC	GCCACCAAAA	AAACAACGCT	TCGTGCTTA	ATGCGCGTCT
2451	AAAAAAGGAT	CTCAAGAAGA	TCCTTTGATC	TTTCTACGG	GGCTGACGC
	TTTTTTCCTA	GAGTTCTTCT	AGGAAACTAG	AAAAGATGCC	CCAGACTGCG
2501	TCAGTGGAAC	GAAAACCTCAC	GTAAAGGGAT	TTTGGTCATG	AGATTATCAA
	AGTCACCTTG	CTTTTGAGTG	CAATTCCCTA	AAACCACTAC	TTTAAATAGTT
2551	AAAGGATCTT	CACCTAGATC	CTTTTAAATT	AAAAATGAAG	TTTTAAATCA
	TTTCTAGAA	GTGGATCTAG	GAAAAATTAA	TTTTTACTTC	AAAATTTAGT
2601	ATCTAAAGTA	TATATGAGTA	AAC TTGGTCT	GACAGTTACC	AATGCTTAAT
	TAGATTTTCAT	ATATACTCAT	TTGAACGAGA	CTGCTCAATGG	TTACCAATTA
2651	CAGTGAGGCA	CCTATCTCAG	CGATCTGTCT	ATTTGCTTCA	TCATAGTTG
	GTCACTCCGT	GGATAGAGTC	GCTAGACAGA	TAAAGCAAGT	AGGATACAAC
2701	CCTGACTCCC	CGTCGTGTAG	ATAACTACGA	TACGGGAGGG	CTTACCATCT
	GGACTGAGGG	GCAGCACATC	TATTGATGCT	ATGCCCTCCC	GAATGGTAGA
2751	GGCCCCAGTG	CTGCAATGAT	ACC GCGAGAC	CCACGCTCAC	CGGCTCCAGA
	CGGGGGTCAC	GACGTTACTA	TGGCGCTCTG	GGTGCAGAGT	GCCGAGGCTCT
2801	TTTTATCAGCA	ATAAACGAGC	CAGCCGGAAG	GGCCGAGCGC	AGAGTGGTTC
	AAATAGTCGT	TATTTGGTCG	GTGCGCCTTC	CCGGCTCGCG	TCTTACCAG
2851	CTGCAACTTT	ATCCGCCTCC	ATCCAGTCTA	TTAATTGTTG	CCGGGAAGCT
	GACGTTGAAA	TAGGCGGAGG	TAGGTCAGAT	AATTAACAAC	GGCCCTTCGA
2901	AGAGTAAGTA	GTTCGCCAGT	TAATAGTTTG	CGCAACGTTG	TTGCCATTGC
	TCTCAATTCAT	CAAGCGGTCA	ATTATCAAAC	CGGTTGCAAC	AACGGTAACG
2951	TACAGGCATC	GTGGTGTAC	GCTGCTCGTT	TGGTATGGCT	TCATTACGCT
	ATGTCGGTAG	CACCACAGTG	CGAGCAGCAA	ACCATACCGA	AGTAAGTCGA
3001	CCGGTTCCCA	TGCTAGTTCC	GCTCAATGTA	GATCCCCCAT	GTGTGCAAA
	GGCCAAGGGT	GCTCCTTCGG	TCCTCCGATC	CTAGGGGGTA	GGCCCTTCAT
3051	AAAGCGGTTA	CGAGGAAGCC	AGGAGGCTAG	GTGTGCAAA	GTAAGTTGGC
	TTTCGCCAAT	TCACTCATGG	TTATGGCAGC	CAACAGTCTT	CATTCAACCC
3101	CGCAGTGTTA	AGTGAGTACC	AATACCGTCG	CTGCTGAGTA	TTCTTACTGT
	GCCTCAACAT	CGTAAGATGC	TTTTCTGTGA	AGCGTATTA	AGAGAATGAC
3151	TCATGCCATC	GCATTCTACG	AAAAAGACACT	CTGGTGAGTA	CCTAACCAAG
	AGTACGGTAG	AATAGTGTAT	CGCGCGACCG	GACCACTCAT	GAGTGGTTTC
3201	TCATTCTGAG	TTATCACATA	CGCGCTGGC	AGTTGCTCTT	GCCCGGCGTC
	AGTAAGACTC	AATACGGGAT	CACATAGCAG	TCAACGAGAA	CGGGCGCAGC
3251	AATACGGGAT	TTATGCCCTA	GTGTATCGTC	AACTTTAAAA	GTGCTCATCA
	TTATGCCCTA	TTCTTCGGGG	CGAAAACTCT	TTGAAATTTT	CACGAGTAGT
3301	TTGGAACACG	AAGAACCC	GCTTTTGAGA	CAAGGATCTT	ACCGCTGTTG
	AACCTTTTGC			GTTCCTAGAA	TGGCGACAA

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# **FIG. 7D** pMOD (Erm-I)

			Apal I		
3351	AGATCCAGTT	CGATGTAACC	CACTCGTGCA	CCCAACTGAT	CTTCAGCATC
	TCTAGGTCAA	GCTACATTGG	GTGAGCACGT	GGGTTGACTA	GAAGTCGTAG
3401	TTTTACTTTC	ACCAGCGTTT	CTGGGTGAGC	AAAAACAGGA	AGGCAAAATG
	AAAATGAAAG	TGGTCGCAAA	GACCCACTCG	TTTTTGCCT	TCCGTTTAC
3451	CCGCAAAAAA	GGGAATAAGG	GCGACACGGA	AATGTTGAAT	ACTCATACTC
	GCGCTTTTTT	CCCTTATTCC	CGCTGTGCCT	TTACAACCTA	TGAGTATGAG
3501	TTCTTTTTTC	AATATTATTG	AAGCATTAT	CAGGGTTATT	GTCTCATGAG
	AAGGAAAAAG	TTATAATAAC	TTCGTAATA	GTCCCAATAA	CAGAGTACTC
3551	CGGATACATA	TTTGAATGTA	TTTAGAAAAA	TAAACAAATA	GGGGTTCGCG
	GCCTATGTAT	AAACTTACAT	AAATCTTTTT	ATTTGTTTAT	CCCCAAGGCG
3601	GCACATTTC	CCGAAAAAGT	CCACCTGACG	TCTAAGAAAC	CATTATTATC
	CGTGTAAAGG	GGCTTTTCAC	GGTGGACTGC	AGATTCTTTG	GTAATAATAG
3651	ATGACATTAA	CCTATAAAAA	TAGCGGTATC	ACGAG	
	TACTGTAAAT	GGATATTTTT	ATCCGCATAG	TGCTC	

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# FIG. 8A

pMOD (Cm)

1	TCGCGCGTTT	CGGTGATGAC	GGTGA AACCC	TCTGACACAT	GCAGCTCCCG
	AGCGCGCAAA	GCCACTACTG	CCACTTTGG	AGACTGTGTA	CGTCGAGGGC
51	GAGACGGTCA	CAGCTTGCT	GTAAAGCGGAT	GCGGGAGCA	GACAAGCCCG
	CTCTGCCAGT	GTGGAACAGA	CATTCCGCTA	CGGCCCTCGT	CTGTTCCGGC
101	TCAGGGCGCG	TCAGCGGGTG	TTGGCGGGTG	TCGGGGCTGG	CTTAACTATG
	AGTCCCGCGC	AGTCGCCAC	AACGCCCCAC	AGCCCCGACC	GAATTGATAC
				<i>ApaI</i>	
151	CGGCATCAGA	GCAGATTGTA	CTGAGAGTGC	ACCATATGCG	GTGTGAAATA
	GCCGTAGTCT	CGTCTAACAT	GACTCTCACG	TGGTATACGC	CACACCTTAT
201	CCGCACAGAT	GCCTAAGGAG	AAAAATCCGC	ATCAGGGCGC	ATTCCGCATT
	GGCGTGTCTA	CGCATTCCTC	TTTTATGGCG	TAGTCCGCGG	TAAGCGGTAA
251	CAGGCTGCGC	AACTGTTGGG	AAGGGCGATC	GGTGCGGGCC	TCTTCGCTAT
	GTCCGACGCG	TTGACAACCC	TTCCCGCTAG	CCACGCCCGG	AGAAGCGATA
					<i>EcoRI</i>
	<i>PvuII</i>			<i>ClaI</i>	
301	TACGCCAGCT	GTCTCTTATA	CACATCTCAA	CCATCATCGA	TGAATTCGAG
	ATCGCGTCTG	CAGAGAATAT	GTGTAGAGTT	GGTAGTAGCT	ACTTAAGCTC
	<i>KpnI</i>				
351	CTCGGTACCG	TTAGTGACAT	TAGAAAAACG	ACTGTAAAAA	GTACAGTCGG
	GAGCATATGC	AATCACTGTA	ATCTTTTGGC	TGACATTTT	CATGTCAGCC
401	CATTATCTCA	TATTATAAAA	GCCAGTCATT	AGGCCATCTT	GACAATTCTC
	GTAATAGAGT	ATAATATTTT	CGGTGAGTAA	TCCGGATAGA	CTGTAAAGGA
451	GAATAGAGTT	CATAAACAA	CCTGCATGAT	AACCATCACA	AACAGAAATG
	CTTATCTCAA	GTATTTGTGA	GGACGTACTA	TTGGTAGTGT	TTGCTTACT
501	TGTACCTGTA	AAGATAGCGG	TAAATATATT	GAATTACCTT	TATTAATGAA
	ACATGGACAT	TTCTATCGCC	ATTTATATAA	CTTAATGGAA	ATAATTACTT
551	TTTTCTGCT	GTAAATATGG	GTAGAAGGTA	ATTACTATTA	TTATTGATAT
	AAAAGGACGA	CATTATTACC	CATCTTCCAT	TAAATGATAAT	AATAACTATA
			<i>NcoI</i>		
601	TTAAGTAAA	CCCAGTAAAT	GAAGTCCATG	GAATAATAGA	AAGAGAAAAA
	AATTCAATTT	GGGTCAITTA	CTTCAGGTAC	CTTATTATCT	TTCTCTTTTT
651	GCATTTTCAG	GTATAGGTGT	TTTGGGAAC	AATTTCCCGG	AACCATTTATA
	CGTAAAAGTC	CATATCCACA	AAACCTTTTG	TTAAAGGGGC	TTGGTAATAT
701	TTTCTCTACA	TCAGAAAGGT	ATAAATCAT	AAACTCTTTG	AAGTCATTCT
	AAAGAGATGT	AGTCTTTCCA	TATTTAGTAT	TTTGAGAAAC	TTTCAATAGA
751	TTACAGGAGT	CCAAATACCA	GAGAAATGTT	TAGATACACC	ATCAAAAAAT
	AATGTCCTCA	GGTTTATGGT	CTCTTACAAA	ATCTATGTGG	TAGTTTTTAA
801	GTATAAAGTG	GCTCTAACTT	ATCCCAATAA	CCTAACTCTC	CGTCGCTATT
	CATATTTTAC	CGAGATTGAA	TAGGGTTATT	GGATTGAGAG	GCAGCGATAA
851	GTAACCAAGT	CTAAAAGCTG	TATTTGAGTT	TATCACCCTT	GTCACTAAGA
	CATTGGTCAA	GATTTTCGAC	ATAAATCTCA	ATAGTGGGAA	CAGTGAATCT
901	AAATAAATGC	AGGGTAAAT	TTATATCCTT	CTTGTTTTAT	GTTCGCGTAT
	TTTATTTACG	TCCCATTTTA	AATATAGGAA	GAACAAAAAT	CAAAAGCCATA
951	AAAACACTAA	TATCAATTTT	TGTGGTTATA	CTAAAAGTCG	TTTGGTGGTT
	TTTTGTGATT	ATAGTTAAAG	ACACCAATAT	GATTTTCAGC	AAACAACCAA
1001	CAATAATATGA	TTAAATATCT	CTTTTCTCTT	CCAATTGTCT	AAATCAATTT
	GTTTATTACT	AATTTATAGA	GAAAAGAGAA	GGTTAACAGA	TTTAGTTAAA

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# FIG. 8B

pMOD (Cm)

1051	TATTAAGTT ATAATTTCAA AGGAGGCTTA TCCTCCGAAT	CATTGTGATAT GTAACATATA CTTGTCTGCT GAACAGACGA	GCCTCCTAAA CGGAGGATTT TTCTTCATTA AAGAAGTAAT	TTTTTATCTA AAAAATAGAT GAATCAATCC CTTAGTTAGG	AAGTGAATTT TTCACTTAAA TTTTTTAAAA AAAAAATTTT
1151	GTCATATTA CAGTTATAAT PvuII	CTGTAAACAAG GACATTGTTC	CTTCAGGGTT GAAGTCCCAA	GAGATGTGTA CTCTACACAT	TAAGAGACAG ATTCTCTGTC
1201	CTGCATTAAT GACGTAATTA GCCTCTTCC CGCGAGAAGG TGCGCGGAGC ACGCCGCTCG GAATCAGGGG CTTAGTCCCC	GAATCGGCCA CTTAGCCGGT GCTTCCTCGC CGAAGGAGCG GGTATCAGCT CCATAGTCGA ATAACGCAGG TATTGCTGCC	ACGCGCGGGG TGCAGCGCCC TCACTGACTC AGTGACTGAG CACTCAAAGG GTGAAGTTCC AAGAGCAATG TTTCTGTGAC	AGAGGCGGTT TCTCCGCCAA GCTGCGCTCG CGACGCGAGC CGGTAATACG GCCATTATGC TGAGCAAAAG ACTCGTTTTT	TGCGATTG6 ACGCATAACC GTCGTTCCGG CAGCAAGCCG GTTATCCACA CAATAGGTGT GCCAGCAAAA CGGTCGTTTT
1301	CGCGGAGGCT GCGCGGAGC ACGCCGCTCG GAATCAGGGG CTTAGTCCCC	GAATCGGCCA CTTAGCCGGT GCTTCCTCGC CGAAGGAGCG GGTATCAGCT CCATAGTCGA ATAACGCAGG TATTGCTGCC	ACGCGCGGGG TGCAGCGCCC TCACTGACTC AGTGACTGAG CACTCAAAGG GTGAAGTTCC AAGAGCAATG TTTCTGTGAC	AGAGGCGGTT TCTCCGCCAA GCTGCGCTCG CGACGCGAGC CGGTAATACG GCCATTATGC TGAGCAAAAG ACTCGTTTTT	TGCGATTG6 ACGCATAACC GTCGTTCCGG CAGCAAGCCG GTTATCCACA CAATAGGTGT GCCAGCAAAA CGGTCGTTTT
1401	CGCGGAGGCT GCGCGGAGC ACGCCGCTCG GAATCAGGGG CTTAGTCCCC	GAATCGGCCA CTTAGCCGGT GCTTCCTCGC CGAAGGAGCG GGTATCAGCT CCATAGTCGA ATAACGCAGG TATTGCTGCC	ACGCGCGGGG TGCAGCGCCC TCACTGACTC AGTGACTGAG CACTCAAAGG GTGAAGTTCC AAGAGCAATG TTTCTGTGAC	AGAGGCGGTT TCTCCGCCAA GCTGCGCTCG CGACGCGAGC CGGTAATACG GCCATTATGC TGAGCAAAAG ACTCGTTTTT	TGCGATTG6 ACGCATAACC GTCGTTCCGG CAGCAAGCCG GTTATCCACA CAATAGGTGT GCCAGCAAAA CGGTCGTTTT
1501	CGCGGAGGCT GCGCGGAGC ACGCCGCTCG GAATCAGGGG CTTAGTCCCC	GAATCGGCCA CTTAGCCGGT GCTTCCTCGC CGAAGGAGCG GGTATCAGCT CCATAGTCGA ATAACGCAGG TATTGCTGCC	ACGCGCGGGG TGCAGCGCCC TCACTGACTC AGTGACTGAG CACTCAAAGG GTGAAGTTCC AAGAGCAATG TTTCTGTGAC	AGAGGCGGTT TCTCCGCCAA GCTGCGCTCG CGACGCGAGC CGGTAATACG GCCATTATGC TGAGCAAAAG ACTCGTTTTT	TGCGATTG6 ACGCATAACC GTCGTTCCGG CAGCAAGCCG GTTATCCACA CAATAGGTGT GCCAGCAAAA CGGTCGTTTT
1601	CGCGGAGGCT GCGCGGAGC ACGCCGCTCG GAATCAGGGG CTTAGTCCCC	GAATCGGCCA CTTAGCCGGT GCTTCCTCGC CGAAGGAGCG GGTATCAGCT CCATAGTCGA ATAACGCAGG TATTGCTGCC	ACGCGCGGGG TGCAGCGCCC TCACTGACTC AGTGACTGAG CACTCAAAGG GTGAAGTTCC AAGAGCAATG TTTCTGTGAC	AGAGGCGGTT TCTCCGCCAA GCTGCGCTCG CGACGCGAGC CGGTAATACG GCCATTATGC TGAGCAAAAG ACTCGTTTTT	TGCGATTG6 ACGCATAACC GTCGTTCCGG CAGCAAGCCG GTTATCCACA CAATAGGTGT GCCAGCAAAA CGGTCGTTTT
1651	CTCAGTTCGG GAGTCAAGCC CCCCTTCAG GGGCGAAGTC CCAACCCGGT GGTTGGGCCA AGGATTAGCA TCCTAATCGT GTGGCTTAAC CAGCCGATTG TGCTGAAGCC ACGACTTCGG AAACAACCCA TTTGTTGGT TACGCGCAGA ATGCGGCTCT GGTCTGACGC CCAGACTGCG AGATTATCAA TCTAATAGTT	TGTAGGTCGT ACATCCAGCA CCCGACCGCT GGGCTGGCGA AAGACACGAC TTCTGTGCTG GAGCGAGGTA CTCGCTCCAT TACGGCTACA ATGCGGATGT AGTTACCTTC TCAATGGAAG CCGCTGGTAG GGCGACCATC AAAAAAGGAT TTTTTCCCTA TCAGTGAAC AGTCACTCTG AAAGGATCTT TTTCTAGAA	TCGCTCCAAG AGCGAGGTTT CGCGCTTATC CGCGGAATAG TTATCGCCAC AATAGCGGTT TGTAGGCGGT ACATCCGCCA CTAGAAGGAC GATCTTCCTG GGAAAAAGAG CCTTTTTCTC CGGTGGTTTT GCCACCAAAA CTCAAGAAGA GAGTTCTTCT GAAACTCAC CTTTGAGTG CACCTAGATC GTGAGTCTAG	CTGGGCTGTG GACCGGACAC CGGTAAGTAT GCCATTGATA TGCGAGCAGC ACCGTCTGCG GCTACAGAGT CGATGTCTCA AGTATTGGT TCATAAACCA TTGGTAGCTC AACCATCGAG TTTGTGTTGCA AAACAACGCT TCCTTTGATC AGGAAACTAG GTTAAGGGAT CAATTCCCTA CTTTTAAATT GAAAAATTTAA	TGCACGAACC ACGTGCTTGG CGTCTTGAGT GCAGAACTCA CACTGGTAAC GTGACCATTG TCTTGAAGTG AGAAGTTTAC ATCTGCGCTC TAGACGCGAG TTGATCCGGC AACTAGGCGG AGCAGAGAT TCGTGCTCTA TTTTCTACGG AAAAAGATGCC TTTGGTCATG AAACAGTAGT AAAAATGAAG TTTTTACTTC

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# FIG. 8C

pMOD (Cm)

2151	TTTAAATCA	ATCTAAAGTA	TATATGAGTA	AACTTGGTCT	GACAGTTACC
	AAAAATTAGT	TAGATTTTCAT	ATATACTCAT	TTGAACCAGA	CTGTCAATGG
2201	AATGCTTAAT	CAGTGAGGCA	CCTATCTCAG	CGATCTGTCT	ATTTCGTTCA
	TTACGAATTA	GTCACTCCGT	GGATAGAGTC	GCTAGACAGA	TAAAGCAAGT
2251	TCCATAGTTG	CCTGACTCCC	CGTCGTGTAG	ATAACTACGA	TACGGGAGGG
	AGGTATCAAC	GGACTGAGGG	GCAGCACATC	TATTGATGCT	ATGCCCTCCC
2301	CTTACCATCT	GGCCCCAGTG	CTGCAATGAT	ACCGCGAGAC	CCACGCTCAC
	GAATGGTAGA	CCGGGGTCAC	GACGTTACTA	TGGCGCTCTG	GGTGCGAGTG
2351	CGGCTCCAGA	TTTATCAGCA	ATAAACCAAGC	CAGCCGGAAG	GGCCGAGCGC
	GCCGAGGTCT	AAATAGTCGT	TATTTGGTCG	GTCCGCCCTTC	CCGGCTCGCG
2401	AGAAGTGGTC	CTGCAACTTT	ATCCGCCTCC	ATCCAGTCTA	TTAATTGTTG
	TCCTCACCAG	GACGTTGAAA	TAGGCGGAGG	TAGGTCAGAT	AATTAACAAC
2451	CCGGGAAGCT	AGAGTAAGTA	GTTCCGCCAGT	TAATAGTTTG	CGCAACGTTG
	GGCCCTTCGA	TCTCATTTCAT	CAAGCGGTCA	ATTATCAAAC	GCCTTGCAAC
2501	TTGCCATTGC	TACAGGCATC	GTGGTGTCC	GCTCGTCGTT	TGGTATGGCT
	AACGGTAACG	ATGTCCGTAG	CACCACAGTG	CGAGCAGCAA	ACCATACCGA
2551	TCATTGAGCT	CCGGTCCCA	ACGATCAAGG	CGAGTTACAT	GATCCCCCAT
	AGTAAGTCGA	GGCCAAGGGT	TGCTAGTTCC	GCTCAATGTA	CTAGGGGGTA
2601	GTTGTGCAAA	AAAGCGGTTA	GCTCCTTCGG	TCCTCCGATC	GTTGTCAAGAA
	CAACACGTTT	TTTCGCCAAT	CGAGGAAGCC	AGGAGGCTAG	GATCCGCTCT
2651	GTAAGTTGGC	CGCAGTGTTA	TCACTCATGG	TTATGGCAGC	ACTGCATAAT
	CATTCAACCG	GGCTCACAAAT	AGTGAGTACC	AATACCGTCG	TGACGTATTA
2701	TCTCTTACTG	TCATGCCATC	CGTAAGATGC	TTTTCTGTGA	CTGGTGAGTA
	AGAGAAATGAC	AGTACGGTAG	GCATTCTACG	AAAAGACACT	GACCACTCAT
2751	CTCAACCAAG	TCATTCTGAG	AATAGTGTAT	GGGCGACCG	AGTTGCTCTT
	GAGTTGGTTC	AGTAAGACTC	TTATCACATA	CGCCGCTGGC	CTAACAGAGAA
2801	GCCCGGCGTC	AATACGGGAT	AATACCGCGC	CACATAGCAG	AACTTTAAAA
	CGGGCCGCGAG	TTATGCCCTA	TTATGGCGCG	GTGTATCGTC	TTGAAATTTT
2851	GTGCTCATCA	TTGGAAAACG	TTCTTCGGGG	CGAAACTCT	CAAGGATCTT
	CACGAGTAGT	AACTTTTTCG	AGAAGCCCC	GCTTTTGAGA	GTTCCTAGAA
ApaLI					
2901	ACCGCTGTTG	AGATCCAGTT	CGATGTAACC	CACTCGTGCA	CCCAACTGAT
	TGGCGACAAC	TCTAGGTCAA	GCTACATTGG	GTGAGCACGT	GGGTTGACTA
2951	CTTCAGCATC	TTTTACTTTT	ACCAGCGTTT	CTGGGTGAGC	AAAAACAGGA
	GAAGTCGTAG	AAAATGAAAG	TGGTCGCAAA	GACCCACTCG	TTTTTGCTCT
3001	AGGCAAAATG	CCGCAAAAAA	GGGAATAAGG	GCGACACGGA	AATGTTGAAT
	TCCGTTTTTAC	GGCGTTTTTT	CCCTTATTCC	CGCTGTGCCT	TTACAACCTA
3051	ACTCATACTC	TTCTTTTTTC	AATATTATTG	AAGCATTTAT	GAGGTTGATT
	TGAGTATGAG	AAGGAAAAAG	TTATAATAAC	TTGTAATAA	GTCCCAATAA
3101	GTCTCATGAG	CGGATACATA	TTTGAATGTA	TTTAGAAAA	TTAGCAATAA
	CAGAGTACTC	GCCTATGTAT	AAACTTACAT	AAACTTTTTT	ATTTGTTTAT
3151	GGGGTTCGCG	GCACATTTC	CCGAAAAAGT	CCACCTGACG	TCTAAGAAAC
	CCCCAAGGCG	CGTGTAAGG	GGCTTTTCAC	GGTGGACTGC	AGATTCTTTG
3201	CATTATTATC	ATGACATTAA	CTTATAAAAA	TAGGCGTATC	ACGAG
	GTAATAATAG	TACTGTAATT	GGAAATATTT	ATCCGCATAG	TGCTC